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**Cc:** Rebecca Shircliff [rshircliff@neptuneinc.org]; N=Holly Ferguson/OU=CI/O=USEPA/C=US@EPA;CN=Lauren Drees/OU=CI/O=USEPA/C=US@EPA[]; N=Lauren Drees/OU=CI/O=USEPA/C=US@EPA[]  
**Bcc:** []  
**From:** CN=Steve Vandegrift/OU=ADA/O=USEPA/C=US  
**Sent:** Tue 7/17/2012 1:22:01 PM  
**Subject:** Fw: Pavillion ADQ Fw: Low Molecular wt acids  
[6521\\_6522\\_run\\_log\\_with\\_10\\_samples\\_highlighted.pdf](#)  
[RSKSOP-112\\_with\\_DQO\\_highlighted.pdf](#)  
<http://www.neptuneandco.com>

Dave-

Here is the Shaw response to the request below. They should be doing CCCs every 10 samples, not analyses.

"Attached are two pdf's, one is the run log with the sample count highlighted and the second is Table 4. Summary of measurement quality objectives for six organic acids analysis by HPLC with the text describing our basis for the sample count. In short, we do not count spikes or duplicates in the 10 sample interval. Our question is should we do the CCC after 10 samples or 10 analyses? We would have no issues with doing a CCC every 10 analyses."

Steve Vandegrift, QA Manager  
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----- Forwarded by Steve Vandegrift/ADA/USEPA/US on 07/17/2012 08:18 AM -----

**From:** Steve Vandegrift/ADA/USEPA/US  
**To:** Shauna Bennett/ADA/USEPA/US@EPA  
**Cc:** John Cox/ADA/USEPA/US@EPA, Sujith Kumar/ADA/USEPA/US@EPA, Cindy Paul/ADA/USEPA/US@EPA  
**Date:** 07/16/2012 04:57 PM  
**Subject:** Pavillion ADQ Fw: Low Molecular wt acids

Shauna-

Please see email below.

Apparently CCCs were not run, but LCS samples were. Were these actually CCCs bu labelled as LCS?

Please provide a response tomorrow morning.

sv

Steve Vandegrift, QA Manager  
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----- Forwarded by Steve Vandegrift/ADA/USEPA/US on 07/16/2012 04:53 PM -----

From: David Gratson <dgratson@neptuneinc.org>  
To: Steve Vandegrift/ADA/USEPA/US@EPA  
Cc: Rebecca Shircliff <rshircliff@neptuneinc.org>  
Date: 07/16/2012 04:17 PM  
Subject: Low Molecular wt acids

Steve,

here is the low molecular weight acids issue/question:

Low MW Organic Acids QC Frequency Not Met. The continuing calibration check (CCC) frequency was not met for sample set 6521, where a CCC was not ran every 10 samples (there was a 15 field sample gap). However, there were 2 lab control spikes ran within this gap that were within control limits

See page 4, the run log in file \*OA866SF SS#6521.pdf

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David Gratson, CEAC

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"Nature holds the key to our aesthetic, intellectual, cognitive and even spiritual satisfaction." E. O. Wilson.

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